



Form PTO-1449 (Modified)		Atty Docket No. 01340P081	Application No. 09/710,703
List of Patents & Publications Statement (Use several sheets if necessary)		Applicant(s): John Josef Hench, et al.	
		Filing Date: November 10, 2000	Group No.: 2661-2642

U.S. PATENT DOCUMENTS

Exam. Initials		Document Number	Date	Name	Class	Sub-class	Filing Date (if appropriate)
5	AA	5,226,041	07/06/1993	Waclawsky et al.	1	1	
7	AB	5,521,971	05/28/1996	Key et al.	1	1	
1	AC	6,091,713	07/18/2000	Lechleider et al.	1	1	
7	AD	5,926,538	07/20/1999	Deryugin et al.	1	1	
2	AE	4,669,113	05/26/1987	Ash et al.	1	1	
	AF						
	AG						
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FOREIGN PATENT DOCUMENTS

Exam. Initials		Document Number	Date	Country	Class	Sub-class	Translation Yes No
	AL						
	AM						
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OTHER ART (Including Title, Author, Date, Pertinent Pages, etc.)

Exam. Initials		Document Identification
	AR	
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Examiner: Laura L. Ward Date Considered: 3/12/05

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<p>Substitute For Form 1449A/PTO (Modified 5-19-2000)</p> <p>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</p> <p>(use as many sheets as necessary)</p>		<p>Complete if Known</p> <p>O I P E</p>		Application No	09/710,703			
				Filing Date	SEP 28 2001	November 10, 2000		
				First Named Inventor	John Josef Hench et al.			
				Group Art Unit	2661 2642			
				Examiner Name	Unassigned			
Sheet 1 of 9		Attorney Docket Number		001340.P083				
U.S. PATENT DOCUMENTS								
Examiner Initials*	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication Cited Document MM-DD-YYYY	Filing date if Appropriate			
	Number							
	6,195,594					Shah et al.	February 27, 2001	June 30, 1999
	5,880,959					Shah et al.	March 9, 1999	November 25, 1997
	6,230,062					Shah	May 8, 2001	June 30, 1999
FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Translation? Yes/No		
	Office or Country Number Date							
OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)								
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	LENNART LJUNG, IEEE Transactions on Automatic Control, Vol. AC-23, No. 5, October 1978, "Convergence Analysis of Parametric Identification Methods", pp 770-783.							
	SERGIO VERDU, Cambridge University Press, "Multiuser Detection", 1998, pp 1-26, 56-66, 154-175, 384-387.							
	GUANGHAN XU et al., IEEE Transactions on Signal Processing, Vol. 43, No. 12, December 1995, "A Least Squares Approach to Blind Channel Identification", pp 2982-2993.							
	ALEXANDRA DUEL-HALLEN et al., IEEE Transactions on Communications, Vol. 37, No. 5, May 1989, "Delayed Decision-Feedback Sequence Estimation", pp 428-436.							
Examiner	Date Considered		3/12/05					
<p>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>								

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		Application No	O I P E 09/710,703			
		Filing Date	Nov 10, 2000			
		First Named Inventor	John Josef Hench et al.			
		Group Art Unit	2661 264			
Examiner Name	Unassigned					
Sheet 2 of 9		Attorney Docket Number	001340.P081			
U.S. PATENT DOCUMENTS						
Examiner Initials*		U.S. Patent Document	Name of Patentee or Applicant of Cited Document	Date of Publication Cited Document MM-DD-YYYY		
		Number		Filing date if Appropriate		
FOREIGN PATENT DOCUMENTS						
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		K. GIRIDHAR et al., IEEE Transactions on Communications, Vol. 45, No. 4, April 1997, "Nonlinear Techniques for the Joint Estimation of Cochannel Signals", pp 473-484.				No
		LANG TONG et al., IEEE Transactions on Signal Processing, Vol. 47, No. 9, September 1999, "Joint Order Detection and Blind Channel Estimation by Least Squares Smoothing", pp 2345-2355				No
		ERIC MOULINES et al., IEEE Transactions on Signal Processing, Vol. 43, No. 2, February 1995, "Subspace Methods for the Blind Identification of Multichannel FIR Filters", pp 516-525.				No
		ALEXANDRA DUEL-HALLEN et al., IEEE Personal Communications, April 1995, "Multiuser Detection for CDMA Systems", pp 46-58.				No
Examiner		Date Considered		3/12/95		
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.						
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		First Named Inventor	John Josef Hench et al.		
		Group Art Unit	2661 264		
Examiner Name	Unassigned				
Sheet 3 of 9		Attorney Docket Number	001340.P081		
U.S. PATENT DOCUMENTS					
Examiner Initials*	U.S. Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication Cited Document MM-DD-YYYY	Filing date if Appropriate	
FOREIGN PATENT DOCUMENTS					
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B✓	UPAMANYU MADHOW et al., IEEE Transactions on Communications, Vol. 42, No. 12, December 1994, "MMSE Interference Suppression for Direct-Sequence Spread-Spectrum CDMA" pp 3178-3188				No
B✓	C. RICHARD JOHNSON, JR. et al., Proceedings of the IEEE, Vol. 86, No. 10, October 1998, "Blind Equalization Using the Constant Modulus Criterion: A Review", pp 1927-1950				No
B✓	P. CIBLAT et al., "Asymptotic Analysis of Blind Cyclic Correlation Based Symbol Rate Estimation", September 2000				No
B✓	DR. DENNIS J. RAUSCHMAYER, Macmillan Technology Series, "ADSL/VDSL Principles", 1999, pp 131-155.				No
Examiner <i>Bob D. Mart</i>	Date Considered		3/12/05		
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	Application No.	09/710,703
	Filing Date	November 10, 2000
	First Named Inventor	John Josef Hench et al
	Group Art Unit	2642-2681
	Examiner Name	Unassigned
Attorney Docket Number	001340.P081	

U.S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

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✓	LENNART LJUNG, Prentice-Hall Information and System Sciences Series, "System Identification, Theory for the User", 1987, pp 141-163, 239-263.	No
✓	YAAKOV BAR-SHALOM et al., Artech House, Inc., "Estimation and Tracking: Principles, Techniques, and Software", 1993, pp 450-465.	No
✓	International Telecommunication Union, ITU-T Telecommunication Standardization Sector of ITU, G.810, "Definitions and Terminology for Synchronization Networks", August 1996, pp 1-20	No
✓	ADSL Forum Technical Report TR-024 for Network Management Working Group, "DMT Line Code Specific MIB", June 1999, pp 1-7	No

Examiner

Date Considered

3/12/05

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<p>Substitute For Form 1449A/PTO (Modified 5-19-2000)</p> <p>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</p> <p>(use as many sheets as necessary)</p>	O I P E <i>SEP 8 0 2001</i> Complete if Known	
	Application No.	09/710,703
	Filing Date	November 10, 2000
	First Named Inventor	John Josef Hench et al.
	Group Art Unit	2642 <i>~2001</i>
	Examiner Name	Unassigned
Sheet 5 of 9	Attorney Docket Number	001340.P081

U.S. PATENT DOCUMENTS

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BJ	J. CIOFFI, EEE379A, "Digital Communication: Signal Processing Class notes, Stanford University, pp 167-174, 194-197.	No
✓	ARTHUR GELB et al., The Analytic Sciences Corporation, "Applied Optimal Estimation", 1974, pp 156-179.	No
✓	SIMON HAYKIN, Prentice Hall Information and System Sciences Series, "Adaptive Filter Theory", Third Edition, 1996, pp 772-815.	No
✓	IAN R. PETERSEN et al., Control Engineering, "Robust Kalman Filtering for Signal and Systems with Large Uncertainties" 1999, pp 35-55	No

Examiner *[Signature]* Date Considered

3/12/05

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	Application No.	SEP 28 2001	09/710,703
	Filing Date	November 10, 2000	
	First Named Inventor	John Josef Hench et al.	
	Group Art Unit	2642 - 2661	
	Examiner Name	Unassigned	
Sheet 6 of 9	Attorney Docket Number	001340.P081	

U.S. PATENT DOCUMENTS

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OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)

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B✓	STEPHEN BOYD et al., "Convex Optimization", Course Reader for EE364: Introduction to Convex Optimization with Engineering Applications, Stanford University, Winter Quarter 1996-1997, pp 1-146.	No
B✓	AMIT MATHUR, Dissertation from Electrical and Computer Engineering, University of California, Santa Barbara, "Algorithms for Cochannel Source Separation and Signal Estimation", December 1996, pp 1-165.	No
B✓	EDWARD A. LEE et al., Kluwer Academic Publishers, "Digital Communication", Second Edition, 1994, pp 408-424, 468-486.	No
B✓	THOMAS STARR et al., Prentice Hall, Communication Engineering and Emerging Technologies, "Understanding Digital Subscriber Line Technology", 1999, pp 297-354.	

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	Application No. <i>28 2001</i>	09/710,703
	Filing Date	November 10, 2000
	First Named Inventor	John Josef Hench et al.
	Group Art Unit	<i>2642 2661</i>
	Examiner Name	Unassigned
Sheet 7 of 9	Attorney Docket Number	001340.P081

U.S. PATENT DOCUMENTS

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Examiner Initials*	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Translation? Yes/No
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B✓	D. GODARD, IEEE Transaction Communications, Vol. COM-28, No. 11, November 1980, "Self-Recovering Equalization and Carrier Tracking in Two-Dimensional Data Communication Systems", pp 1867-1875.	No
B✓	LENNART LJUNG, PTR Prentice Hall Information and System Sciences Series, "System Identification, Theory for the User", Second Edition, 1999, pp 79-139, 197-279, 317-360.	No
B✓	RAÚL A. CASAS et al., Broadcasting & Cable, "Current Approaches to Blind Decision Feedback Equalization", August 1999, pp 1-52.	No
B✓	JOHN G. PROAKIS, McGraw Hill Series in Electrical and Computer Engineering, "Digital Communications, Third Edition, 1995, pp 267-286.	No

Examiner Paula A. Brown Date Considered 3/12/05

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	Application No.	09/710,703
	Filing Date	November 10, 2000
	First Named Inventor	John Josef Hench et al.
	Group Art Unit	2661
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Sheet 8 of 9	Attorney Docket Number	001340.P081

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B ~	CRAIG MICHAEL TEUSCHER, Dissertation submitted as requirement for the degree of Dr. of Philosophy in Engineering-Electrical Engineering and Computer Sciences, "Low Power Receiver Design for Portable RF Applications: Design and Implementation of an Adaptive Multiuser Detector for an Indoor, Wideband CDMA Application, Fall 1998, pp 37, 43-52	No
B ~	CLAES TIDESTAV et al., Signals and Systems, Uppsala University, "Realizable MIMO Decision Feedback Equalizers", International Conference on Acoustics, Speech, and Signal Processing (ICASSP99) March 1999, Phoenix, AZ, V.5, pp 2591-2594.	No

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Sheet 9 of 9	RECEIVED OCT 01 2001 Technology Center 2	

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B ²	K. SAM SHANMUGAN et al., John Wiley and Sons, "Random Signals, Detection, Estimation and Data Analysis", 1988, pp 341-377.	No
B ³	HARRY L. VAN TREES, Massachusetts Institute of Technology, "Detection, Estimation, and Modulation Theory", 1968, pp 19-163, 239-418.	
Examiner <i>Eric Q. Lam</i>	Date Considered	3/12/05

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Exam. Initial*	Cite No.'	U.S. Patent Document		Name of Patentee or Applicant of Cited Document <i>Copy of Papers Originally Filed</i>	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear		
		Number	Kind Code ² (If known)					
		US5063351					Goldthorp, et al.	11/5/1991
		US5343461					Barton, et al.	8/30/1994
		US5858151					Boudy	12/8/1998
		US5887032					Cioffi	03/23/1999
		US5926538					Deryugin, et al.	7/20/1999
		US5995566					Rickard, et al.	11/30/1999
US6055297		Terry	4/25/2000					
US6160790		Bremer	12/12/2000					

FOREIGN PATENT DOCUMENTS

Exam. Initial*	Cite No.'	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number ⁴	Kind Code ⁵ (If known)				

Examiner Signature	<i>James D. Paul</i>	Date Considered	3/12/05
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¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard S.3). ⁴For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

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OTHER AND NO PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	Translation ²
B		PCT Search Report, PCT/US00/42097, 10 November 2000, Date of Mailing: 26 June 2001 (5 pgs.)	RECEIVED MAR 05 2002
✓		PCT Search Report, PCT/US00/30859, 10 November 2000, Date of Mailing: 27 March 2001 (5 pgs.)	Technology Center 2600
✓		PCT Search Report, PCT/US00/30858, 10 November 2000, Date of Mailing: 16 March 2001 (7 pgs.)	
✓		PCT Search Report, PCT/US00/30887, 11 November 1999, Date of Mailing: 09 August 2001 (24 pgs.)	
✓		PCT Search Report, PCT/US00/30967, 10 November 2000, Date of Mailing: 24 January 2001 (7 pgs.)	
✓		PCT Search Report, PCT/US00/31026, 10 November 2000, Date of Mailing: 22 January 2001 (7 pgs.)	
✓		HONIG, M.L. et al, "Suppression of Near- and Far-End Crosstalk by Linear Pre- and Post-Filtering", Selected Areas in Communications, IEEE Journal on. Vol 10 Issue 3, April 1992, pages 614-629, entire document	

Examiner Signature	<i>Bruce A. Henn</i>	Date Considered	3/12/05
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Examiner Initials*	Cite No.*	Document Number	Publication Date or Issue Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
B	US-3,814,868		06-04-1974	Bradley	
B	US-4,649,505		03-10-1987	Zinser, Jr. et al.	
B	US-4,712,064		12-22-1987	Claessen	
B	US-4,760,596		07-26-1988	Agrawal et al.	
B	US-4,987,569		10-22-1991	Ling et al.	
B	US-5,157,690		10-20-1992	Buttle	
B	US-5,319,636		06-07-1994	Long et al.	
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B	US-5,761,614		06-02-1998	Leitch et al.	
B	US-5,862,157		01-19-1999	Bessios	
B	US-6,161,209		02-12-2000	Moher	
B	US-6,172,970		01-09-2001	Ling et al.	
B	US-6,249,762		06-19-2001	Kirsteins et al.	
B	US-6,317,495		11-13-2001	Gaikwad et al.	
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B	US-6,434,233		08-13-2002	Bjarnason et al.	
B	US-6,442,495		08-27-2002	Fleming-Dahl	

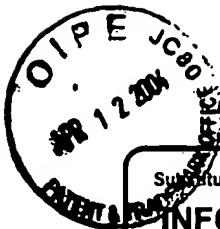
FOREIGN PATENT DOCUMENTS

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Sheet	2	of	3	Application Number	09,710,703
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				Art Unit	2661
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				Attorney Docket Number	Technology Center 2600 6515P029

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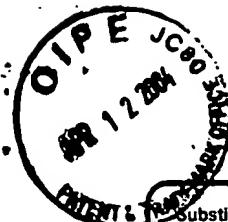
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3

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Application Number

09,710,703

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First Named Inventor

John Josef Hench

Art Unit

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Examiner Name

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Attorney Docket Number

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NON PATENT LITERATURE DOCUMENTS

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B		PETERSEN, BRENT R., et al., "Minimum Mean Square Equalization in Cyclostationary and Stationary Interference-Analysis and Subscriber Line Calculations", Student Member, IEEE Journal, Vol. 9, No. 6, August 1991, pp. 11.	
2		VALENTI, CRAIG F., Bellcore, "Cable Crosstalk Parameters and Models", ANSI Contribution TIE1.4/97-302 Technical Subcommittie Working Group Members, Spectral Compatibility, Morristown, NJ 07960, USA, September 22, 1997, pp. 8.	

Examiner Signature		Date Considered	3/12/05
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